

INSTITUT PASTEUR COURSE - EDUCATION CENTER

# Microbiology Biology of Microorganisms

Institut Pasteur, Paris, September 2 to October 28, 2019

**This eight-week theoretical and practical course presents the latest advances in molecular and cellular microbiology.** Multidisciplinary research training is provided through lectures, bench works and discussion sessions. Candidates must have good knowledge in molecular biology, genetics, physiology and biochemistry (Master level).

## Objectives of the course:

The first two-weeks will include lectures providing an up-to-date knowledge on various fields of prokaryotic and eukaryotic microbiology and lectures on specialized topics or emerging concepts and innovative technologies. The language for lectures is English.

The practical training is organized into three parts providing knowledge and technical support on different research areas in microbiology. Targeted or global approaches are used to study microorganisms on molecular, cellular, or integrated scales (microbial communities, host cells).

## Program of the course:

Some topics and practical works may change from year to year, without altering the general frame and means of the course. In 2019, the practical sessions will provide expertise in the study of the diversity of microbial communities and the analysis of molecular mechanisms controlling the morphology of *Helicobacter pylori* and colistin resistance in *Escherichia coli* and *Klebsiella pneumoniae*.

**Online registration:** [www.pasteur.fr/en/microbiology](http://www.pasteur.fr/en/microbiology)

## Co-directors:

Françoise Norel,  
Christophe Beloin

Chief of works: Ingrid Guilvout

## Practical information:

**Deadline for application:** June 22, 2019

**Attendees:** 20 students

**Contact:** [enseignement@pasteur.fr](mailto:enseignement@pasteur.fr)

[WWW.PASTEUR.FR/EN/EDUCATION](http://WWW.PASTEUR.FR/EN/EDUCATION)